



N.K. CN  
UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,509	10/29/2001	Scott Hunt	56442 (71710)	5412

24536 7590 03/25/2003

GENZYME CORPORATION  
LEGAL DEPARTMENT  
15 PLEASANT ST CONNECTOR  
FRAMINGHAM, MA 01701-9322

EXAMINER

O CONNOR, CARY E

ART UNIT

PAPER NUMBER

3732

DATE MAILED: 03/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/008,509	HUNT ET AL	
	Examiner Cary E. O'Connor	Art Unit 3732	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-24 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-24 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 22 October 2002 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.
 

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                      | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                             | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2,6,7</u> . | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5, 9 and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Muhanna et al (2002/0058860). Muhanna shows a segmented arm support apparatus for attachment to a surgical retractor comprising an articulating arm 100 having a plurality of segments 110, each segment having an convex outer wall 112 in mating relationship to a concave inner surface 113 of an adjacent segment. Each segment is formed of a material with high stiffness coated with a high friction plating material (paragraph 0043). A cable 101 extends through a passage 114 formed in each segment. A device 128 for tightening the cable is provided for causing the mating segments to be brought into tight frictional engagement. A tissue stabilization device (paragraph 0006) is attached to the arm and is lockable upon tightening of the cable. As to claim 16, the method for stabilizing is inherently carried out during the use of the device.

Claims 1-3, 5, 9-16, 20-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Gannoe et al (2002/0077532). Gannoe shows a segmented arm support apparatus for attachment to a surgical retractor 22 comprising an articulating arm 204 having a plurality of segments 206, each segment having an convex outer wall 220 in mating relationship to a concave inner surface 218 of an adjacent segment. Each segment is formed of a material with high stiffness coated with a high friction plating material 222 (see also paragraph 0091). A cable 208 extends through a passage formed in each segment. A device 205 for tightening the cable is provided for causing the mating segments to be brought into tight frictional engagement. A tissue stabilization device 202 is removably attached to the arm and is lockable upon tightening of the cable. As to claims 11-13 and 20-22, the stabilization device is removably attached to the arm by a movable socket 248 slidable along a plunger 266 attached to the end of the cable and wherein the socket is biased against the plunger by a spring 270. As to claims 14, 15, 23 and 24, the arm may be attached to the retractor by a mounting block 72 including a lever 106 for positioning a cam 108. As to claim 16, the method for stabilizing is inherently carried out during the use of the device.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Art Unit: 3732

Patentability shall not be negated by the manner in which the invention was made.

Claims 4 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ganno (2002/0077532). As to the particular material used to form the segments, without a showing of criticality, stainless steel is considered to have been an obvious design choice to one of ordinary skill in the art.

Claims 6-8, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ganno et al (2002/0077532) in view of Leyden et al (6,371,345). While Ganno discusses using a plating material have a different hardness than the material of the segments (paragraph 0091), he does not specify if the plating material is necessarily softer than the material forming the segments. Leyden utilizes a compressible coating on a ball member to increase frictional resistance between the mating surfaces. The coating reduces the force required to that must be applied to arrest relative movement between the mating surfaces (see column 3, lines 18-44). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a coating on the segments of Ganno that is softer than the segment material, in view of Leyden, so that less force would be required to arrest relative motion of the segments. As to claims 7, 8, 18 and 19, Leyden discloses the use of an elastomer material for the friction increasing coating. Without a showing of criticality, the use of the other claimed materials as a coating material would have been obvious to one of ordinary skill in the art, dependent on the material of the segments and the desired tightening force.

***Drawings***

The corrected or substitute drawings were received on October 22, 2002. These drawings are approved.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cary E. O'Connor whose telephone number is 703-308-2701. The examiner can normally be reached on M-Th, 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 703-308-0858. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-2708 for regular communications and 703-308-2708 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

*Cary E O'Connor*  
Cary E. O'Connor  
Primary Examiner  
Art Unit 3732

ceo  
March 17, 2003